



Form PTO-1449 (modified)

Atty. Docket No.  
UTSD:703USD1Serial No.  
10/748,720

List of Patents and Publications for Applicant's

## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

Applicant

Philip Jordan Thomas, John F. Hunt, William Christian  
Wigley and Rhesa D. StidhamFiling Date:  
December 30, 2003Group:  
Unknown 1636U.S. Patent Documents  
See Page 1Foreign Patent Documents  
See Page 1Other Art  
See Page 1

## U.S. Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date    | Name            | Class | Sub Class | Filing Date of App. |
|-------------|-----------|-----------------|---------|-----------------|-------|-----------|---------------------|
| BR          | A1        | 5,120,653       | 6-9-92  | Henderson       | 435   | 252.33    | 10-22-85            |
| BR          | A2        | 6,294,330       | 9-25-01 | Michnick et al. | 435   | 252.3     | 7-30-98             |

## Foreign Patent Documents

| Exam. Init. | Ref. Des. | Document Number | Date    | Country | Class | Sub Class | Translation Yes/No |
|-------------|-----------|-----------------|---------|---------|-------|-----------|--------------------|
| BR          | B1        | WO 98/34120     | 8/6/98  | PCT     |       |           |                    |
| BR          | B2        | WO 98/44350     | 10/8/98 | PCT     |       |           |                    |

## Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation  |
|-------------|-----------|---|
| BR          | C1        | Abbas-Terki and Picard, "α-Complemented β-galactosidase. An in vivo model substrate for the molecular chaperone heat-shock protein 90 in yeast," <i>Eur. J. Biochem.</i> , 266:517-523, 1999.   |
|             | C2        | Betton <i>et al.</i> , "Probing the structural role of an αβ loop of maltose-binding protein by mutagenesis: heat-shock induction by loop variants of the maltose-binding protein that form periplasmic inclusion bodies," <i>J. Mol. Biol.</i> , 262(2):140-150, 1996. |
|             | C3        | Blackwell and Horgan, "A novel strategy for production of a highly expressed recombinant protein in an active form," <i>FEBS Lett.</i> , 295:10-12, 1991.   |
|             | C4        | Blakely <i>et al.</i> , "Epidermal growth factor receptor dimerization monitored in live cells," <i>Nature Biotech.</i> , 18:218-222, 2000.   |
|             | C5        | Bourot <i>et al.</i> , "Glycine betaine-assisted protein folding in a <i>lysA</i> mutant of <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> , 275:1050-1056, 2000.   |
|             | C6        | Brown <i>et al.</i> , "Correcting temperature-sensitive protein folding defects," <i>J. Clin. Invest.</i> , 99:1432-1444, 1997.   |
|             | C7        | Bruijn <i>et al.</i> , "Aggregation and motor neuron toxicity of an ALS-linked SOD1 mutant independent from wild-type SOD1," <i>Science</i> , 281:1851-1853, 1998.  |

25389041.1

EXAMINER: Patrick Higgins

DATE CONSIDERED: 2/10/05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609, DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

|   |  |  |                          |
|---|--|--|--------------------------|
| Form PTO-1449 (modified)  |  | Atty. Docket No.<br>UTSD:703USD1   | Serial No.<br>10/748,720 |
| List of Patents and Publications for Applicant's<br><br>INFORMATION DISCLOSURE STATEMENT<br><br>(Use several sheets if necessary) |  | Applicant<br>Philip Jordan Thomas, John F. Hunt, William Christian<br>Wigley and Rhessa D. Stidham |                          |
|   |  | Filing Date:<br>December 30, 2003  | Group:<br>Unknown 1636   |
| U.S. Patent Documents<br>See Page 1   | Foreign Patent Documents<br>See Page 1 | Other Art<br>See Page 1  |                          |

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam.<br>Init. | Ref.<br>Des. | Citation  |
|----------------|--------------|---|
| P5R            | C8           | Culvenor <i>et al.</i> , "Subcellular localization of the Alzheimer's disease amyloid precursor protein and derived polypeptides expressed in a recombinant yeast system," <i>Amyloid: Int J Exp Clin Invest</i> , 5(2):79-89, 1998.            |
|                | C9           | Dobson, "Protein misfolding, evolution and disease," <i>TIBS</i> 24:329-332, 1999.  |
|                | C10          | Johnson and Varshavsky, "Split ubiquitin as a sensor of protein interactions in vivo," <i>Proc Natl Acad Sci U S A</i> , 91(22):10340-4, 1994.  |
|                | C11          | Foster <i>et al.</i> , "Pharmacological rescue of mutant p53 conformation and function," <i>Science</i> , 286:2507-2510, 1999.  |
|                | C12          | Harper and Lansbury Jr., "Models of amyloid seeding in Alzheimer's disease and scrapie: mechanistic truths and physiological consequences of the time-dependent solubility of amyloid proteins," <i>Annu. Rev. Biochem.</i> , 66:385-407, 1997. |
|                | C13          | Houry <i>et al.</i> , "Identification of <i>in vivo</i> substrates of the chaperonin GroEL," <i>Nature</i> , 402:147-154, 1999.   |
|                | C14          | Huang <i>et al.</i> , "NMR structure and mutagenesis of the Fas (APO-1/CD95) death domain," <i>Nature</i> , 384:638-641, 1996.  |
|                | C15          | Hung <i>et al.</i> , "Crystal structure of the ATP-binding subunit of an ABC transporter," <i>Nature</i> , 396:703-707, 1998.   |
|                | C16          | Huth <i>et al.</i> , "Design of an expression system for detecting folded protein domains and mapping macromolecular interactions by NMR," <i>Protein Sci.</i> , 6:2359-2364, 1997.   |
|                | C17          | Johnsson and Varshavsky, "Split ubiquitin as a sensor of protein interactions in vivo," <i>Proc. Natl. Acad. Sci. USA</i> , 91:10340-10344, 1994. OF RECORD - C10   |
|                | C18          | Kapust and Waugh, " <i>Escherichia coli</i> maltose-binding protein is uncommonly effective at promoting the solubility of polypeptides to which it is fused," <i>Protein Science</i> , 8:1668-1674, 1999.                                      |
|                | C19          | King and Sorscher, "Recombinant synthesis of cystic fibrosis transmembrane conductance regulator and functional nucleotide-binding domains," <i>Methods Enzymol.</i> , 292:686-697, 1998.   |
| ✓              | C20          | Ko <i>et al.</i> , "The cystic fibrosis transmembrane conductance regulator," <i>J. Biol. Chem.</i> , 268:24330-24338, 1993.  |

25389041.1

EXAMINER:

PATRICK RIGGINS

DATE CONSIDERED:

2/10/05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)

|   |  |   |                          |
|---|--|---|--------------------------|
| Form PTO-1449 (modified)  |  | Atty. Docket No.<br>UTSD:703USD1  | Serial No.<br>10/748,720 |
| List of Patents and Publications for Applicant's<br><br>INFORMATION DISCLOSURE STATEMENT<br><br>(Use several sheets if necessary) |  | Applicant<br>Philip Jordan Thomas, John F. Hunt, William Christian Wigley and Rhessa D. Stidham |                          |
|   |  | Filing Date:<br>December 30, 2003   | Group:<br>Unknown 1636   |
| U.S. Patent Documents<br>See Page 1   | Foreign Patent Documents<br>See Page 1 | Other Art<br>See Page 1   |                          |

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam. Init. | Ref. Des. | Citation   |
|-------------|-----------|--|
| P50         | C21       | Lee <i>et al.</i> , "Effect of the N-terminal hydrophobic sequence of hepatitis B virus surface antigen on the folding and assembly of hybrid $\beta$ -galactosidase in <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> , 187:417-424, 1990.        |
|             | C22       | Luzzago and Cesareni, "Isolation of point mutations that affect the folding of the H chain of human ferritin in <i>E. coli</i> ," <i>EMBO J</i> , 8:569-576, 1989.   |
|             | C23       | Maxwell <i>et al.</i> , "A simple <i>in vivo</i> assay for increased protein solubility," <i>Protein Science</i> , 8:1908-1911, 1999.  |
|             | C24       | Nixon and Benkovic, "Improvement in the efficiency of formyl transfer of a GAR transformylase hybrid enzyme," <i>Protein Engineering</i> , 13(5):323-327, 2000.  |
|             | C25       | Opal and Paulson, "Genetic instabilities and hereditary neurological diseases," <i>Am J. Hum. Genet.</i> , 63(6):1921, 1998.   |
|             | C26       | Papouchado <i>et al.</i> , "Expression of properly folded human glutamate decarboxylase 65 as a fusion protein in <i>Escherichia coli</i> ," <i>Eur. J. Biochem.</i> , 246:350-359, 1997.  |
|             | C27       | Pelletier <i>et al.</i> , "An <i>in vivo</i> library-versus-library selection of optimized protein-protein interactions," <i>Nature Biotech.</i> , 17:683-690, 1999.   |
|             | C28       | Qu and Thomas, "Alteration of the cystic fibrosis transmembrane conductance regulator folding pathway," <i>J. Biol. Chem.</i> , 271(13):7261-7264, 1996.   |
|             | C29       | Rao <i>et al.</i> , "Rhodopsin mutation G90D and a molecular mechanism for congenital night blindness," <i>Nature</i> , 367:639-642, 1994.   |
|             | C30       | Sugihara and Baldwin, "Effects of 3' end deletions from <i>Vibrio hrvveyi</i> luxB gene on luciferase subunit folding and enzyme assembly: generation of temperature-sensitive polypeptide folding mutants," <i>Biochemistry</i> , 27:2872-2880, 1988. |
|             | C31       | Tan and Pepys, "Amyloidosis," <i>Histopathology</i> , 25:403-414, 1994.  |
|             | C32       | Thomas <i>et al.</i> , "Altered protein folding may be the molecular basis of most cases of cystic fibrosis," <i>FEBS Lett.</i> , 312:7-9, 1992.   |
|             | C33       | Thomas <i>et al.</i> , "Defective protein folding as a basis of human disease," <i>TIBS</i> , 20:456-459, 1995.  |
| ✓           | C34       | Valois <i>et al.</i> , "Utilisation of the PCA strategy to study the folding of the RBD of raf," <i>FASEB Journal</i> , 13:A1387, 330, 1999.   |

25389041.1

EXAMINER:

PATRICK RIGGINS

DATE CONSIDERED:

2/10/05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

|   |  |   |                          |
|---|--|---|--------------------------|
| Form PTO-1449 (modified)  |  | Atty. Docket No.<br>UTSD:703USD1  | Serial No.<br>10/748,720 |
| List of Patents and Publications for Applicant's<br><br>INFORMATION DISCLOSURE STATEMENT<br><br>(Use several sheets if necessary) |  | Applicant<br>Philip Jordan Thomas, John F. Hunt, William Christian Wigley and Rhessa D. Stidham |                          |
|   |  | Filing Date:<br>December 30, 2003   | Group:<br>Unknown 1656   |
| U.S. Patent Documents<br>See Page 1   | Foreign Patent Documents<br>See Page 1 | Other Art<br>See Page 1   |                          |

### Other Art (Including Author, Title, Date Pertinent Pages, Etc.)

| Exam.<br>Init. | Ref.<br>Des. | Citation  |
|----------------|--------------|---|
| FR             | C35          | Waldo <i>et al.</i> , "Rapid protein-folding assay using green fluorescent protein," <i>Nature Biotechnology</i> , 17:691-695, 1999.  |
| J              | C36          | Wang <i>et al.</i> , "Expression and purification of the first nucleotide-binding domain and linker region of human multidrug resistance gene product: comparison of fusions to glutathione S-transferase, thioredoxin and maltose-binding protein," <i>Biochem J.</i> , 338:77-81, 1999. |
| W              | C37          | Wood <i>et al.</i> , "Prolines and amyloidogenicity in fragments of the Alzheimer's peptide $\beta$ /A4," <i>Biochemistry</i> , 34(3):724-730, 1995.  |

25389041.1

EXAMINER: PATRICK RIGGINS

DATE CONSIDERED: 2/10/05

EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

INFORMATION DISCLOSURE STATEMENT — PTO-1449 (MODIFIED)